

AN 1992-313570 [38] WPIDS
DNC C1992-139380
TI Mfg. copper alloy for metal moulds for moulding
plastics - by solution treating alloy at specified temperature after hot
forging,
cooling at specified rate, cold working and ageing at specified temperature.

DC A32 M26

PA (NIHA) NIPPON MINING CO

CYC 1

PI JP 04221032 A 19920811 (199238)* 4<--

ADT JP 04221032 A JP 1990-413304 19901221

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AB JP 04221032 A UPAB: 19931006

The Cu alloy contains 0.1-4.0 weight% Ti and
balance Cu, with opt. 0.001-3.0 weight% of at least one of
Zn, P, Sn, As, Cr, Mg, Mn, Sb, Fe, Co, Al, Zr, Ti, Si,
Ag, Pb, B, Ni and lanthanoids as sub-components, and with unavoidable
impurities, comprises: solution treating the Cu alloy at
600 deg.C or higher after hot forging; cooling at a rate of 1 deg.
C/sec. or higher; and after cold working at a draught of
20% or more, ageing at 250-500 deg.C.

Cu alloy having excellent mechanical properties,
thermal conductivity, and high temperature impact strength was pref. obtd. by
subjecting a Cu alloy containing 0.05% Be and 3.0 Ti, to a
process which comprises solution treating at 850 deg.C and cooling at a rate
of 10 deg.C/sec., cold working at a draught of 40%,
and ageing at 420 deg.C for 7 hrs.

USE/ADVANTAGE - Enables production of metal moulds having improved
strength and thermal conductivity. The moulding of plastics can be
shortened and the productivity can be increased.

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